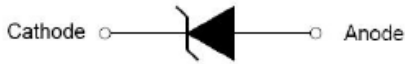


**SOD-123**



Marking: T3

**Features**

- Fast Switching Device (TRR <50nS)
- Power Dissipation of 500mW
- High Stability and High Reliability
- Low reverse leakage
- Halogen free and RoHS compliant

**Mechanical Data**

- SOD-123 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Epoxy UL: 94V-0
- Mounting Position: Any

**Maximum Ratings & Thermal Characteristics**

(Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Reverse Voltage	VR	250	V
Peak Reverse Voltage	VRM	250	V
Power Dissipation	Pd	500	mW
Operating junction temperature	Tj	150	°C
Storage temperature range	Ts	-65-+150	°C
Working Inverse Voltage	WIV	75	V
Average Rectified Current	IO	200	mA
Non-repetitive Peak Forward Current	IFM	400	mA
Peak Forward Surge Current @tp=1ms; TA=25°C	IFSM	2.5	A

Valid provided that electrodes are kept at ambient temperature.

**Electrical Characteristics**

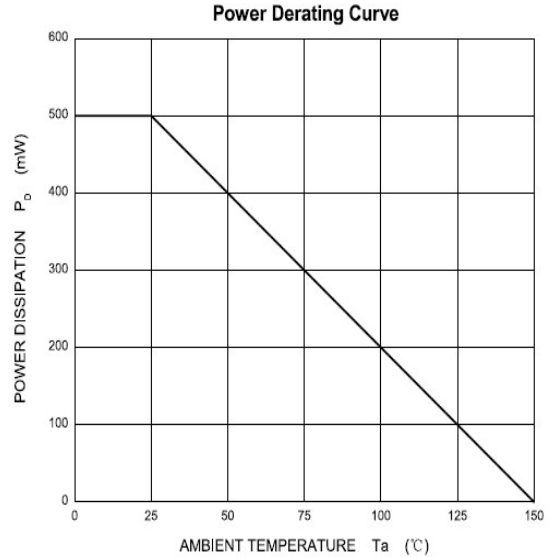
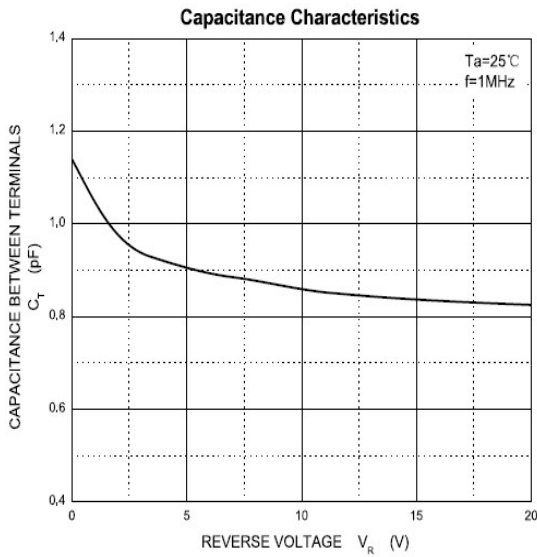
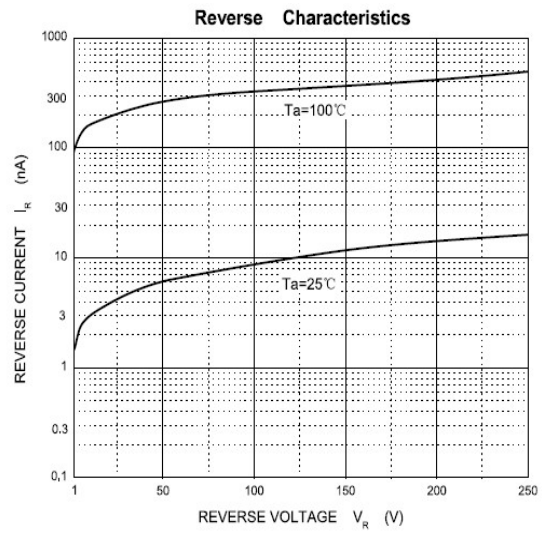
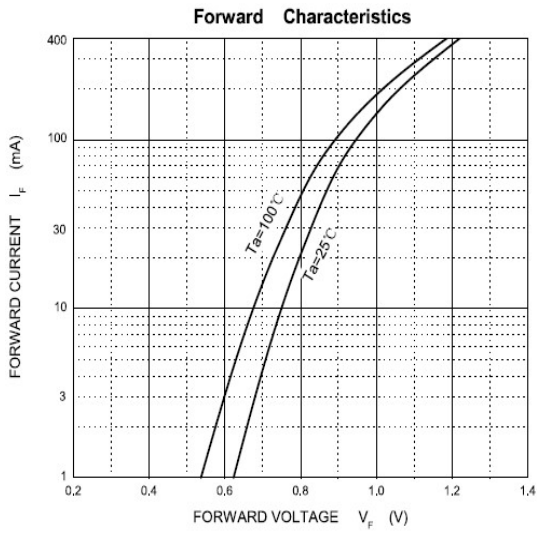
(Ratings at 25°C ambient temperature unless otherwise specified.)

Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	
VRB	Reverse Voltage	IB=100uA	250	---	V
IR	Reverse Leakage Current	VR=200V	---	0.1	uA
VF	Forward Voltage	IF=100mA	---	1.00	V
		IF=200mA	---	1.25	
TRR	Reverse Recovery Time	IF= 30mA, IR=30mA RL=100Ω IRR=3mA	---	50	nS
C	Capacitance	VR=0V, f=1MHZ	---	5	pF

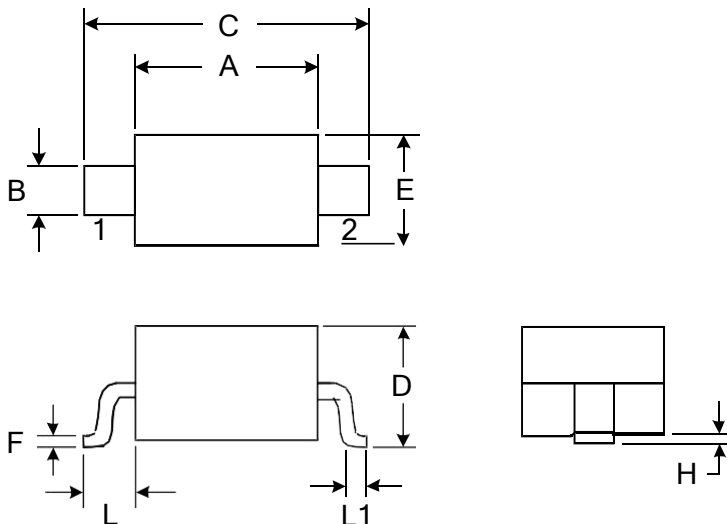
**Summary of Packing Options**

Package	Packing Description	Packing Quantity	Industry Standard
SOD-123	Tape/Reel,7" reel	3000	EIA-481-1

## Ratings and Characteristic Curves



## Package Outline Dimensions: SOD-123



SYMBOL	DIMENSIONS			
	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	2.600	2.800	0.102	0.110
B	0.450	0.650	0.018	0.026
C	3.550	3.850	0.139	0.152
D	1.050	1.250	0.041	0.049
E	1.500	1.700	0.059	0.067
F	0.080	0.150	0.003	0.006
L	0.500 REF		0.020REF	
L1	0.250	0.450	0.010	0.018
H	0.000	0.100	0.000	0.004